



Continuous prodn. of metabolite by cell culture - comprises culturing cell in shallow part isolated by sepg. membrane then transferring metabolite to deep side

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Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 8009958	A	19960116	JP 94146616	A	19940628	199612	B

Priority Applications (Number Kind Date): JP 94146616 A (19940628)

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 8009958	A		7	C12M-001/00	

Abstract:

JP 8009958 A

Continuous prodn. of a metabolite by cell culture comprising culturing a cell by isolating from deep side using a sepg. membrane at shallower part from the medium surface and then transferring cell metabolite to medium in deep side via membrane; and recovering the culture.

Also claimed is appts. for continuous prodn. of cell metabolite in which a separating membrane which is permeable to cell metabolite and medium component but impermeable to cell, is equipped at shallowest part from medium surface in a culture vessel. Shallow side is used as culture region and deep side is used as medium feeding region. A level controller which maintains medium surface supplied to culture region through membrane to defined level is equipped at end downstream of medium feeding region.

ADVANTAGE - Oxygen required for the growth can be easily supplied as the cell is present at the shallow part of the medium. No adhesion or clogging of the culture outlet and the medium inlet were observed as the membrane prevents the income of the cell to the medium feeding region.

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Automatically controlled culturing device - has density sensor to measure tank conditions
Patent Assignee: SHIMADZU SEISAKUSHO KK

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 1211486	A	19890824	JP 8835855	A	19880217	198940	B
JP 95034737	B2	19950419	JP 8835855	A	19880217	199520	

Priority Applications (Number Kind Date): JP 8835855 A (19880217)

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 1211486	A		6		
JP 95034737	B2		5	C12M-003/02	Based on patent JP 1211486

Abstract:

JP 1211486 A

The device comprises a culture liq. circulating passage, a recovering passage connected with a sepg. means in the circulating passage, a sampling passage including a density sensor branched from the recovering passage, and a controller to adjust a feed quantity through the recovering passage.

USE - Culture medium can be supplied automatically corresp. to conditions in the tank.

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Dialog® File Number 351 Accession Number 8023702



Detecting liq. surface level having a bubble layer - comprises measuring electroconductivity of a space and detecting electrode positions for incubating livingcells

Patent Assignee: HITACHI LTD

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
JP 4148671	A	19920521	JP 90269372	A	19901009	199227	B

Priority Applications (Number Kind Date): JP 90269372 A (19901009)

Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
JP 4148671	A		6	C12M-001/36	

Abstract:

JP 4148671 A

Detecting surface level comprises measuring the electroconductivity in a space defined by a pair of electrodes to which a voltage is applied, and detecting the position of the electrodes when the measured value exceeds a set value.

USE - For incubating living cells.

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Dialog® File Number 351 Accession Number 9095807